## REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS

BASED ON TEST PRESSURE OF 200 P.S.I. (ALL AREA IN SQUARE FEET)

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20"									
11 1/4	12,315	3	7	8	2	2	3	13	2
11 1/4° 22 1/2°	24.517	3 7	13	8 15	4	4	7	25	3
45	24,517 48,091	12	24	29	6	6	12	48	5
90°	88,844	23	45	53	12	12	23	89	9
PLUG	62.832	16	32	38	8	8	16	63	7
24"	•								
11 1/4	17,734	5	9	11	3	3	5	18	2
22 1/2° 45°	35,305 69,252	9	18	22 42	5	5	9	36	4
45°	69,252	18	35	42	9	9	18	70	7
90°	127,936	32	64	77	16	16	32	128	13
PLUG	90,478	23	46	55	12	12	23	91	10
30"							_	_	_
11 1/4	27,709	7	14	17	4	4	7	2	3
22 1/2	55,163	14	28	34	7	7	14	56	6
45°	108,206	28	55	65	14	14	28	109	11
90°	199,900	50	100 71	120 85	25	25	50	200	20 15
PLUG 36"	141,372	36	/1	65	18	18	36	142	15
36 11 1/4°	30.001	10	20	24	5	5	10	40	<del>                                     </del>
22 1/2*	39,901 79,435	20	40	48	10	10	20	30	<u>4</u> 8
45°	155,816	39	78	94	20	20	39	156	16
90°	287,855	72	144	94 172	36	36	72	288	29
PLUG	203,575	51	102	122	26	26	51	204	21
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## NOTES:

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF  $90^{\circ}$  TO THE THRUST VECTOR.

USE 6"-90" BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR



DATE REVISED SCALE DETAIL W—11